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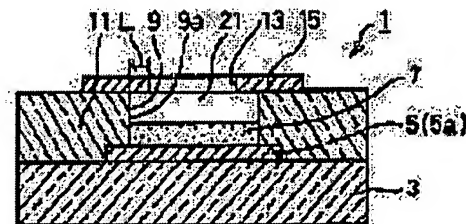
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(54) BIOSENSOR AND ITS MANUFACTURE

(57)Abstract:

PURPOSE: To obtain a biosensor wherein the responsiveness of a measuring operation in a solution under test can be measured in a short time and to obtain its manufacturing method.

CONSTITUTION: A discrimination layer 7 which has carried and held a biological substance is formed in such a way that it is deposited on a partitioned space at the bottom part of a measuring chamber 21. As a result, it can be formed in a prescribed thickness having a small irregularity and in a wide surface area. Since the irregularity in the thickness of the discrimination layer 7 can be reduced, an action pole 5 and a counter pole 15 can be formed at a narrow interval without bringing the discrimination layer 7 into contact with the counter pole 15 when an insulating layer 11 is interposed between the action pole 5 and the counter pole 15 so as to ensure a prescribed distance. Thereby, the line of electric force of an electric double layer which is formed between the action pole 5 and the counter pole 15 can be made short. As a result, a noise current which flows at the early stage of a measuring operation can be converged in a short time, and the measuring time of a substance under test can be shortened.



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